Community Greenhouse Gas Emissions in 2007
Detailed Report

	Equiv CO_2 (tonnes)	Equiv CO_2 (%)	Energy (GJ)
Residential			
Warrenton, Virginia			
Warrenton Residential Buildings			
Electricity	23,420	15.4	161,227
Light Fuel Oil	423	0.3	5,954
Natural Gas	13,408	8.8	252,324
Propane	625	0.4	10,041
Fuelwood (Air Dry)	9	0.0	1,195
Subtotal Warrenton Residential Buildings	37,885	24.9	430,742

1) The electrical information supplied by Glenn Etheridge, Regulatory Advisor at Dominion Power.
Phone-804-771-3056
Email-glenn.etheridge@dom.com
2) Natural Gas information supplied by Melinda Bateman at Columbia Gas.
Phone-1-800-440-6111
3) As in the 2002 Residential Buildings analysis, propane, fuel oil, and wood use were determined from the Virginia Tech spreadsheet developed by Virginia Tech student researchers. Damian Pitt,
PhD student in Planning, Governance, and Globalization, was kind enough to get permission for me to use the spreadsheet. To come up with their spreadsheet, the students "assumed that the majority of homes still relying on these "other" fuels for heating are older homes, and are not likely to be very energy-efficient. Therefore, the spreadsheet included R-values for ceilings, windows, doors, walls, and floorsthat would be roughly equivalentto the minimum level of insulation needed to satisfy most current energy-efficient building codes. The homes were also assumed to be relatively small (1500sq.ft.). The spreadsheet also assumed other values, such as for internal heat gains, indoor setpoint, heating degree days, and design temperature that are considered appropriate for the Blacksburg area." (APPENDIX D-USE OF OTHER FUELS FOR RESIDENTIAL HEATING, VIRGINIA TECH SPREADSHEET)
The student researchers then used the year 2000 census figures to determine how many houses used these fuels as a primary source of heat and used those figures to enter into their spreadsheet. (dpitt@vt.edu)
4) Since there are only census figures available for the year 2000, I determined for 2007 that some of these houses have probably been renovated.
5) I decided to to subtract 10 houses, as a conservative figure, from each of the number of houses that use propane and fuel oil in the year 2000 census and used each of those numbers in the Virginia Tech spreadsheet to come up with 2007 figures for the above fuels. I kept the wood figures the same, since I know even in a new house some people like to use wood as a primary source of heat.
6) I used The Weather Underground internet site to find Warrenton's weather history to determine Warrenton's heating degree days in 2007. The heating degree days for Warrenton 2007 was
4042DD. I then used that figure in the Virginia Tech spreadsheet.

Subtotal Residential	37,885	24.9	430,742
Commercial			
Warrenton, Virginia			
State Government Buildings			
Electricity	512	0.3	3,524
Subtotal State Government Buildings	512	0.3	3,524

1) The electrical information was supplied by Glenn Etheridge, Regulatory Advisor at Dominion Power.
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Email-(glen.etheridge@dom.com			
Warrenton Commercial Buildings			
Electricity	40,450	26.6	278,461
Natural Gas	12,967	8.5	244,030
Subtotal Warrenton Commercial Buildings	53,416	35.1	522,490
Subtotal Commercial	53,928	35.4	526,015
Industrial			
Warrenton, Virginia			
Warrenton Industrial Buildings			
Electricity	923	0.6	6,353
Subtotal Warrenton Industrial Buildings	923	0.6	6,353
1) The electrical information was provided by Glenn Etheridge, Regulatory Advisor at Dominion Power. Phone-(804-771-3056) Email-(glenn.etheridge@dom.com)			
Subtotal Industrial	923	0.6	6,353
Transportation			
Warrenton, Virginia			
Community Transportation			
Gasoline	45,814	30.1	623,184
Diesel	9,707	6.4	130,037
Subtotal Community Transportation	55,521	36.5	753,221
1) Traffic counts, road types, and other transportation info provided by L. Marshall Barron III, VDOT (Marshall.Barron@VDOT.Virginia.gov) 2) After reviewing info, roadtypes, and vehicle miles were entered into the VMT Calculator.			
Subtotal Transportation	55,521	36.5	753,221
Waste			
Warrenton, Virginia			
Fauquier County Landfill			*Disposal Method - Managed Landfill*
Paper Products	3,044	2.0	
Food Waste	590	0.4	

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Plant Debris	257	0.2	
Wood/Textiles	91	0.1	
Subtotal Fauquier County Landfill	3,982	2.6	

1) Landfill tonnage info was supplied by Donna Pullen, Aministrative Assistant, at TOW Public Works.
2) Waste share percentages used are the typical percentages from US communities from data figures of USEPA as of August 2002.

Subtotal Waste	3,982	2.6	
Total	152,239	100.0	1,716,330